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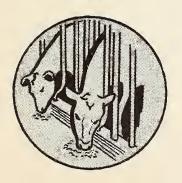
Industrial Molasses

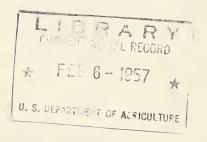


1956









UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Marketing Service
Washington, D.C.

PREFACE

This is the third annual summary of developments in the molasses market to be presented by the Agricultural Marketing Service. The first annual summary was issued in November 1954. Included in this market review is a discussion of industrial molasses supply, utilization, prices, and other factors which have a bearing on the molasses market. Commodities which affect the molasses market are also discussed, as well as developments in domestic and foreign molasses production and movement. The statistical series which have appeared in previous molasses reports have been brought up to date with estimates for calendar year 1956.

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INDUSTRIAL MOLASSES - AN ANNUAL MARKET REVIEW

Prepared by the Grain Division

HIGHLIGHTS

Sharply higher prices for industrial molasses and a decrease in its use for livestock feed were the outstanding market developments during the past year. These trends were in rather sharp contrast with those of 1954 and 1955, when prices fluctuated only about 1 cent per gallon, and new marketing methods contributed to a steady increase in feed molasses usage. Consumer resistance to high molasses prices in the fall of 1956 reflected the disappearance of the cost advantage of molasses over other carbohydrate feeds at most feed mixing centers in the United States. Although total molasses usage during 1956 will continue at a relatively high rate, its use in mixed feeds and on-farm use may be expected to be noticeably lower than during the past 2 years, as feed mixers cut back to minimum levels in formula feeds and farmers turn to other sources of carbohydrate feeds.

PRICES

New Orleans

Feed molasses prices at New Orleans fluctuated about 1.25 cents per gallon during 1954 and 1955, following normal seasonal trends. During November 1955 the New Orleans wholesale price averaged 10.2 cents per gallon. During December the increased seasonal demand resulted in a gradual climb to 10.5 cents. By the end of January 1956 the blackstrap price had reached 13 cents, the highest for that date since 1952 and 3 cents above January 1955. This reflected the higher cost of Cuban blackstrap which was sold the last week in January 1956 at 10.25 cents per gallon, f.o.b. Cuba. Blackstrap reached a peak of 13.5 cents at New Orleans the first week of March, but dropped back 0.5-cent during April. During this period molasses consumption usually declines as new pasture comes in. With the drop in demand, prices usually decline. This was not the case during May, however, as the price for molasses started its second advance since the beginning of the year and reached 15.5 cents per gallon by July. The price was steady at that level for only one month as it continued the upward spiral the first week in August.

During the August-October period when a nominal increase in demand is expected, prior to the heavy winter feeding months, blackstrap prices jumped from 15.5 to 24 cents per gallon. This 8.5-cent increase is without precedent during peacetime and brought the price of blackstrap to the highest point since April 1952. (The Korean conflict and its attendant inflation caused molasses prices to increase from 6 cents

in February 1950 to a peak of 35 cents twelve months later.) During the August-October period the demand for molasses was moderate at most terminals and distributors reported a decline in the volume of molasses sold.

New York

East Coast prices for feed molasses followed the pace set by New Orleans, although with fewer fluctuations. The price at New York in November 1955 was 11 cents per gallon. A steady increase brought the price to 16 cents by the first week in February. From that point the price increased only 0.5-cent through the end of July. The August upsurge of prices in New Orleans was repeated in the New York market where 25 cents per gallon was reached by the first week in November. A price differential between New York and New Orleans of about 3 cents per gallon was maintained from November 1955 to May 1956. From May to October the differential narrowed considerably. For a brief period in early October the differential was reversed when the New Orleans price was almost 1 cent higher than the price at New York. An increase of almost 7 cents per gallon at New York during October again re-established the historical relationship. The price differential between New York and New Orleans from January through October 1956 averaged 1.7 cents. This compares with 1.96 cents during the same period in 1955 and 1.48 cents in 1954.

SUPPLIES

Industrial molasses supplies for 1956 are estimated at 607 million gallons, about 1 percent below the 617 million gallons available during calendar year 1955, but 163 million above the 10-year (1945-54) average. Heavy shipments of Cuban high-test molasses have kept the supply above the 600-million mark. Most of this Cuban product is used in the manufacture of ethyl alcohol but some has found its way into feed molasses outlets. Blackstrap molasses is used chiefly for feed with very little going into alcohol production. Supplies of cane blackstrap have been adequate at most distribution terminals during calendar year 1956. Exceptions to this have been in the Texas drought area and some portions of the Southeast, as seasonal feed consumption increased.

Beet molasses, which accounts for about 8 percent of total supplies, has been limited during the last half of 1956. The bulk of beet molasses supplies is used by yeast manufacturers. However, increasing quantities of beet molasses are being mixed with beet pulp, leaving only limited quantities available for feed usage in liquid form. Citrus molasses supplies, which were abundant only a few years ago, have been scarce during all of 1956, following the pattern of 1955 when cattle-feeder demand surpassed the available supply of citrus molasses. During 1956 most of the citrus molasses supply was committed to established customers. Corn molasses production did not vary greatly from past years, and most of 1956 saw generally limited supplies at the few

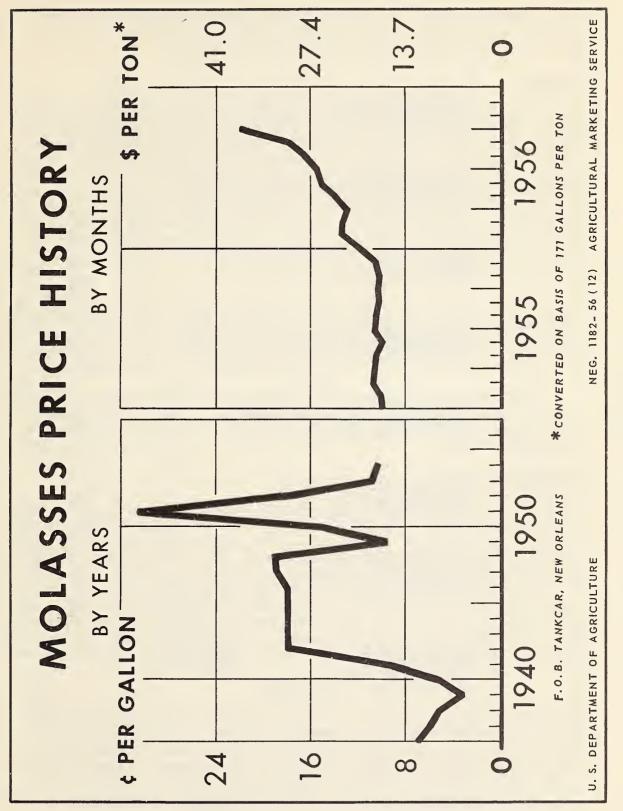


FIGURE 1

corn-molasses production points. Corn molasses accounts for about 3 percent of our total supply. Foreign supplies of industrial molasses accounted for 59 percent of United States supplies.

Imports

Imports of industrial molasses are estimated at 365 million gallons for 1956. About 64 percent of this will be from Cuba, our chief supplier. Of the expected 235 million gallons of Cuban molasses, approximately 112 million gallons will be high-test molasses, including about 25 million gallons from the 1955 crop. Imports from Mexico will be about 35 million gallons, considerably less than a year ago as a result of decreased production in that country. The Dominican Republic is expected to export around 30 million gallons of blackstrap to the United States, about 5 million under the 1955 total. All other countries may be expected to ship to the United States about 64 million gallons, about the same as in 1955.

Imports from the Orient will not be as great as in 1955 chiefly due to decreased imports from Formosa and the Philippines. Indonesia exported several million gallons of cane blackstrap to the United States for the first time since World War II but imports from that country will not offset the reduction in U. S. imports from other Oriental countries.

The estimated total of 365 million gallons of foreign molasses supplies could be materially increased if Cuba chooses to ship to the United States molasses which was originally earmarked for local use or manufacturing purposes.

Domestic Production

Production of industrial molasses on the United States mainland, Puerto Rico, and Hawaii will probably be about 2 million gallons under the 1955 domestic production of 252 million. This results from an expected decrease in mainland sugarcane production of about 12 percent. Assuming molasses yields to be about average, a molasses crop of 43 million gallons may be expected. The anticipated increase in beet molasses may tend to offset this reduction. Inshipments from Puerto Rico and Hawaii will total about 95 million gallons, about the same as in 1955. Production of molasses from all other domestic sources will reach an estimated 155 million gallons. Industrial molasses supplies from all sources are shown in table 1.

UTILIZATION

Livestock feeding continues to lead as the chief usage of industrial molasses, and will account for about 66 percent of all the molasses used during 1956. The upward trend of molasses usage in mixed feeds and on-farm feeding ended with 1955 as the peak year. A record 68 percent or 419 million gallons was consumed during 1955 as compared with 396 million estimated for 1956. The ethyl alcohol industry remains the

INDUSTRIAL MOLASSES SUPPLY BY MAJOR SOURCES

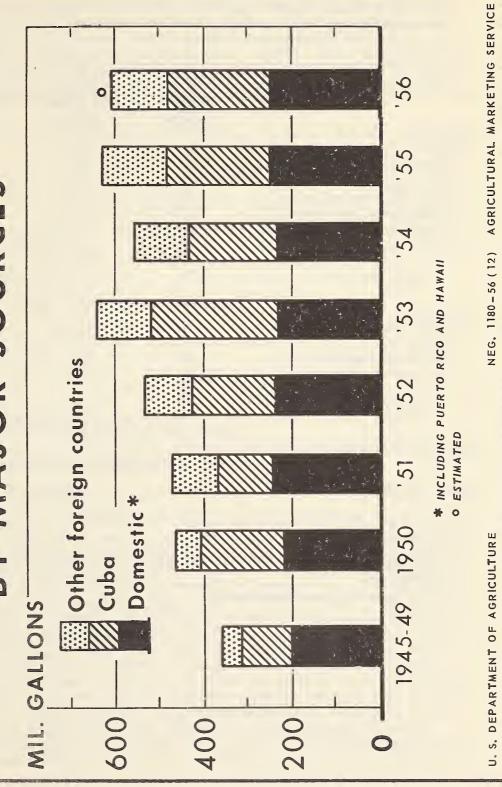


FIGURE 2

Table 1. - United States industrial molasses supplies, by source, calendar years 1954 and 1955, and estimated supplies for 1956

			
Source	1956 1/	1955	1954
Domestic:	Million gallons	Million gallons	Million gallons
Hawaii 2/ Puerto Rico 2/ Beet Mainland cane mills Refiners' blackstrap Hydrol Citrus	52 43 34 17	50 44 50 49 33 18	47 37 45 46 32 18
Total domestic	250	252	234
Foreign: Cuba 3/ Mexico Dominican Republic Other countries	-35 30	233 43 35 63	203 38 24 76
Total foreign	365	374	341
Exports	- 8	- 9	- 11
GRAND TOTAL	607	617	56 L

^{1/} Estimated.

^{2/} Includes only those quantities shipped to United States Mainland.

^{3/} Includes high-test molasses.

second largest user of molasses, and will use about 90 million gallons of molasses (mostly high-test) during 1956. This is an increase of 8 million gallons over last year, but 33 percent under the 1945-54 average of 134 million gallons. Butyl alcohol and acetone production will utilize about 5 percent less molasses than in 1955. The 36 million gallons of molasses used for this purpose last year was near the record of 40 million used in 1946. As outlined in table 2, other categories of molasses utilization reflect a slight increase.

Table 2. - Utilization of molasses by use, 1954-56

Use	1956	1955	1954
Molasses 1/ used for:	Million gallons	Million gallons	Million gallons
Ethyl alcohol	90	82	57
acetone	34 3	36 3	29
Feed	3 396	419	406
citric acid	70	65	60
miscellaneous	14	12	10
Total utilization:	607	617	564

^{1/} Includes high-test molasses.

Molasses and Corn Prices

When comparing the carbohydrate values of molasses and corn (6 1/2 gal.=
1 bushel) the historical price relationship has favored molasses. This
has been generally true during the last 12 years with the exception of
1951. During 1956 the price of No. 3 yellow corn at Kansas City has
increased from a low of \$1.29 per bushel in January to a high of \$1.63
in July, but has been decreasing steadily through October to \$1.36.
Molasses prices at Kansas City during the same 9-month period increased
from 18.4 cents per gallon to 30.7 cents. In terms of the above ratio,
the price of molasses during the last week of October 1956 was \$2.00
or 64 cents higher than a bushel of corn. In Minneapolis, molasses
was 82 cents higher and in Chicago 68 cents above the comparable price
of corn. While molasses prices increased sharply during the first nine
months of 1956, other feedstuff prices increased only slightly. This
has resulted in a decrease in the amount of molasses used in mixed
feeds and the amount used by farmers and ranchers. Consumers accustomed
to using molasses because of its price advantage over other carbohydrates

have turned to grains and other feedstuffs. Table 8 shows molassescorn price comparisons at New York, Kansas City, and Chicago. During October, molasses price increases averaged 5.3 cents per gallon at those three points or 34.5 cents per 6 1/2 gallons. Corn prices (No. 3 Yellow) at the same points dropped an average of 35.5 cents per bushel.during October.

INDUSTRIAL ALCOHOL

The use of molasses in the production of alcohol increased during 1956, extending the importance of the alcohol industry in its relationship to the molasses market. As the usage of molasses has increased since 1954, so has the price of ethyl alcohol. The last decline in alcohol prices started October 1953 at 48 cents per wine 1/gallon, and reached the low point of 40 cents in April 1954. The price was static at that level until January 1956, when a slight increase of 2 cents per gallon took place. The price for ethyl alcohol stayed at 42 cents through the first half of 1956 and rose another 5 cents in July to 47 cents per gallon where it remained through October.

Production

Ethyl alcohol production will amount to about 260 million wine gallons during 1956, an increase of 8 percent over 1955, and the largest since 1943. Petroleum byproducts (ethylene gas and ethyl sulphate) will account for approximately 71 percent of all raw materials used for production - a slight percentage decrease from last year. Molasses usage will be nearly 22 percent, up 4 percent over last year. Grains will represent less than 2 percent of the raw materials used for alcohol, and all other raw materials used account for about 5 percent of the total. An estimated 90 million gallons of molasses will make up the second largest source of raw material for alcohol, an increase of about 8 million gallons over 1955, but considerably under the 1950-54 average of 138 million gallons. See table 10.

Imports

Ethyl alcohol imports increased in 1956 and may total 10 to 12 million gallons, which will be greater than any year since 1952. During 1955 only 2.7 million gallons were imported, and 1954 imports were less than one million. During 1956 U.S. demand continued at a high level, and domestic prices for alcohol strengthened. These factors have induced the increased rate of alcohol imports.

Stocks

Stocks of ethyl alcohol during 1956 were generally lower than a year ago. On January 1, 1956, alcohol stocks totaled 22.1 million gallons compared to 27.4 million a year earlier. Ethyl alcohol stocks in

^{1/} Standard U.S. gallon of liquid measure containing 231 cubic inches

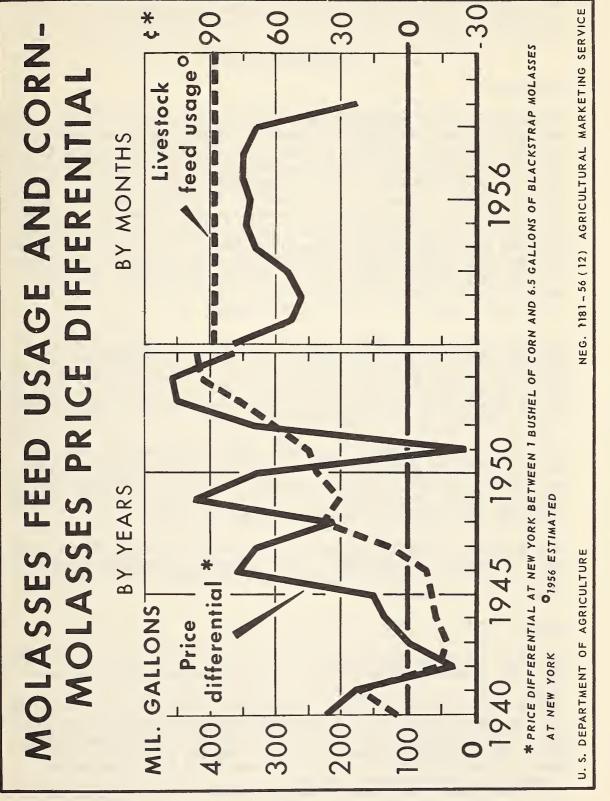


FIGURE 3.

million gallons, at the end of each of the first three quarters of 1956, with 1955 comparisons, are as follows: 18.8 (25.3), 20.1 (26.3), and 21.5 (21.3).

FOREIGN DEVELOPMENTS

Caribbean

Production of Cuban high-test molasses 2/ totaled lll.4 million gallons during 1956, less than half the record 231.5 million gallons produced from the 1955 crop. Most of the latter crop had been sold late in 1955 at 1.25 cents per pound of sugar content (about 11.25 cents per gallon). Total sales contracts of 1956 Cuban high-test amounted to 211 million gallons subject to the ability to deliver, 136 million of which was sold at 1.40 cents per pound of sugar content (about 12.6 cents per gallon). This left 105 million gallons which the Cubans were unable to deliver from the 1956 production of high-test molasses. Of the 211 million gallons sold, 50 million was intended for the United Kingdom. Actual deliveries of high-test from the 1956 crop, as of September 30, 1956, amounted to 84.5 million gallons to the United States, 13.5 million to the United Kingdom and 1.1 million to Canada.

Production of cane blackstrap in Cuba totaled 213 million gallons, an increase of about 15 million gallons over the 1955 blackstrap crop. About 101 million gallons of blackstrap were available for export, the remainder going to domestic consumption. All 1956 blackstrap sales for export were made at a price of 10.25 cents per gallon, an increase of 2.45 cents over the price for 1955 blackstrap.

An agreement has reportedly been made between the Dominican Republic and United States buyers for the entire 1957 crop of blackstrap which may amount to about 30 million gallons. According to embassy reports, the price set is 18 cents per gallon, with some qualifications pending the price Cuba ultimately receives for its 1957 crop.

Severe drought conditions in Mexico reduced sugar production there by about 20 percent. This caused a drop in exports to the United States of about 10 million gallons during 1956. Prospects for the 1956-57 Mexican crop are average.

Europe

European beet-molasses production was adversely affected by bad weather, which may restrict the possibility of any increased exports to the United States in 1956. The Netherlands will probably be forced to import molasses to meet its feed requirements. Other European countries will be consuming the bulk of their own molasses production. France was the only major exporter of beet molasses to the United States during 1956. West Germany, at one time a major foreign supplier of beet molasses, probably will not ship any beet molasses to the United

^{2/} A molasses-type product containing about 75 percent sugar which is processed from sugarcane juice, without the removal of any sugar.

States during the year 1956. Total shipments of European beet molasses to the United States may reach 13 million gallons, about the same as a year ago. The sudden increase in domestic molasses prices in the United States during the fall of 1956 may, however, attract additional amounts of the European beet molasses.

Asia

Indonesia is continuing to expand her sugar industry. The first postwar shipments of molasses from that country arrived in the United States this year. Most oriental molasses production is remaining in that area, consumed mostly in Japan. The Philippines may be expected to export about 9 or 10 million gallons to the United States but most of its crop will also go to Japan.

In late October the Indian Government expressed interest in locating molasses buyers in the United States. Although we have never imported molasses from India, it appears that it has an exportable surplus of cane blackstrap which may find its way into United States markets by 1957.

New Sugar Mills

Under economic expansion programs, facilities for the milling of cane sugar are increasing rapidly in many parts of the world. The most significant of these increases is in India where 35 new mills are planned during the next few years. Several of these mills are expected to be grinding for the 1957-58 season. A factory for the manufacture of sugar-mill machinery is being erected in Madras, India which will be able to manufacture two complete sugar mills per year. In terms of blackstrap molasses this is very significant. India now produces almost as much sugar as Cuba. Only half of this is centrifugal sugar however, so the quantity of blackstrap available would not be comparable with Cuba's production. Cane blackstrap molasses is a byproduct of the centrifugal milling process. As the additional mills in India increase its centrifugal sugar potential, its capacity for producing blackstrap molasses is also increased. Although molasses yields are variable we will assume about 40 gallons of blackstrap per short ton of raw sugar.

Estimated production of centrifugal sugar for India for the 1956-57-crop is about 2.5 million tons, which would indicate a probable black-strap production of 100 million gallons. This production will be materially increased in later years with the addition of 35 new mills.

Over two dozen new mills are planned in Central and South America and several are being erected in Africa. Most of the sugar milling potential in Asia and much of the increased blackstrap production would probably go to the United Kingdom, Japan, or be used locally. Under market conditions similar to those in October 1956, it is feasible that some of the blackstrap would find its way into the United States industrial molasses market.

MARKET TRENDS

The world sugar market strengthened considerably in late 1956, bringing with it an upward adjustment in the United States sugar quotas to a level of 9 million tons. Higher world sugar prices may also lead to stepped-up sugar production in Cuba and other countries. This will probably eliminate any production of high-test molasses in Cuba during 1957 as that country will be using most of its available cane for an estimated 5.85 million short tons of raw sugar. Blackstrap production would be increased by about 26 million gallons as sugar production is increased 3/.

United States alcohol interests, who used most of the high-test molasses during 1956, probably would not be in the market for 1957-crop blackstrap if the cost for 1957-crop Cuban molasses reflects the high 1956 domestic prices in the United States. Assuming a cost in 1957 of 18 to 20 cents per gallon and an ocean freight cost of 5 or 6 cents, the raw material costs for alcohol would be at least 23 cents per gallon. It requires approximately 2.3 gallons of blackstrap to produce one gallon of ethyl alcohol. These estimated 1957 prices would put raw material costs alone above the October wholesale ethyl alcohol price of 47 cents per gallon.

Reduced usage of molasses by the feed trade, which has been reported by molasses distributors and feed mixers in the fall of 1956, may continue on into 1957. Domestic supplies of cane blackstrap will be higher in 1957 as the Mainland cane area, Hawaii and Puerto Rico increase their sugar production to supply the larger quotas granted under the Sugar Act Amendment of 1956.

The tense international situation in October had a strengthening effect on molasses prices which had already more than doubled during 1956. Ocean rates for molasses tankers were pushed up by the disturbed oil situation in the Near East, and had reached about 4 cents per gallon by the end of October, about twice the rate in early 1956. These factors point toward a continuation of high molasses prices, in spite of distributors' and feeders' reports of decreased demand and consumption by the feed trade. Many molasses deliveries were in the latter part of 1956 under contracts running through December 31, contracts which were made at much lower prices than those prevailing in late October. The significance of higher spot prices may not be fully known until January 1957, when many consumers will be negotiating for new deliveries. By that time, the Cuban Sugar Stabilization Institute may have sold the 1957 Cuban blackstrap crop. In past years the Cuban price has generally indicated the trend of United States domestic prices.

^{3/} About 40 gallons of blackstrap was produced per short ton (raw sugar) of 1956 Cuban sugar.

 $[\]mu$ Ocean freight rate based on one port loading, North side of Cuba to one Gulf port.

The development of an efficient and extensive molasses marketing system during the last few years has brought feed molasses within reach of practically every farmer and rancher in the country. Many of these consumers have invested in molasses mixing equipment and storage facilities. They have regarded molasses as a commodity with relatively stable prices, which enabled them to plan ahead in their livestock feeding programs. Since higher feed molasses prices may be expected in 1957, it would be to the advantage of all segments of the molasses trade to reappraise the situation and assist consumers by providing them with molasses at a cost more nearly in line with the costs of other animal feeds.

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Table 3. - Estimated utilization of industrial molasses, by use, United States 1946-1956

1961 : 0961 : 6461 : 8461 : 7461 : 9461	1948	1948	1949	1 00 0	1950	1	1952 1953		1954	1955 1956	1956
Million Gallons gallons gallons gallons gallons gallons gallons	MA 11 gall	ion	Million	Million	Million Million gallons gallons	Million	Million gallons	Million gallons	Million	Million	Million gallons
73.2 139.2	139,	~	135.6	151.1						82.5	0.0
40.4 19.2 113.6 158.4	19				17.7	6.6	8.0	25°6 205°8	28.9	36.1	34.0
3.5 2.8	2.6	m.	3.1	4.3	2.4	2.6	2.4	2.6	2,3	2.7	3.0
117.1 161.2	161.2		1,9.8	175.4	163.0	160.9	169.2	208.4	87.8	121.3	127.0
78.h 127.9	127.9		224.6	200°,6	233.2	248.7	300.4	353.9	1.904	419.0	396.0
16.6 51.0	51.0		51.0	51.0	51.0		53.0	55.0	0.09	65.0	70.0
21.8 11.4 68.4 62.4	11.4		8.3		7.0		7.0	8.0		12.0	34.0
263.9 351.5	351.5		433.7	434.5	454.2	9.894	529.6	625.3	563.9	617.3	0°209
		1				-	-				

^{1/} Alcohol Tax Unit, Internal Revenue Service.
2/ Estimated by substracting molasses used in alcohol plants and distilleries, and an estimate of "other uses" from total mainland molasses supplies, and using the residual as molasses utilized in feeds. No changes in stocks were considered. Information for 1946 from data issued by U.S. Tariff Commission.
3/ Data for 1946 from U.S. Tariff Commission; 1947-56 estimated.

Table 4. (Part 1) - Production, imports and exports of industrial molasses, United States, 1942-1956

	Total	1,000 gallons	95,022	104,037	126,040	126,917	122,153	127,737	147,567	744, 447	247,375	152,839	148,748	149,158	149,395	158,230	156,000
	Hydrol 5/	1,000 gallons	19,884	18,638	17,668	17,169	16,716	20,261	18,364	19,031	21,388	18,411	18,063	18,792	17,873	17,725	18,000
roduction	Citrus 4/	1,000 gallons	ì	1	2,650	3,960	8,058	10,342	10,953	7,259	7,929	11,926	9,333	7,382	8,804	8,422	000%
Mainland Production	Refiners' blackstrap 7:	1,000 gallons	21,615	28,683	33,944	30,041	25,111	34,653	35,612	32,944	34,326	32,775	36,221	36,123	31,836	32,954	34,000
	Beet 2/	1,000 gallons	25,640	24,044	35,937	40,943	43,818	34,539	42,333	37,851	38,918	45,377	33,230	38,229	44,832	49,942	52,000
	Cane 1/	1,000 gallons	27,883	32,672	35,841	34,804	28,450	27,942	40,305	144,362	418,44	144,350	51,901	48,632	46,050	49,187	43,000
	Year		1942	1943:	1944	1945	1946	1947	1948:	1949	1950	1951	1952:	1953:	1954	1955	1956 9/ :

1/ Data for 1942-47 from "World Sugar Situation," Bureau of Agricultural Economics, U. S. Dept. of Agriculture, Sept. 1949; 1948-55 from unpublished data of Sugar Division, GSS. 3/ Figures for 1942-47 estimated by multiplying refiners' production of sugar (short tons, raw value) by 6.25; 1948-55 from reports submitted to Sugar Division. From reports submitted by beet sugar companies to Sugar Division.

4/Obtained from records of the Florida Citrus Processors Association.
5/Estimated by multiplying total domestic dextrose sales and exports by a constant, assuming 2.58 gallons of hydrol per 100 pounds of dextrose.

Table μ_{\bullet} (Part 2) - Production, imports and exports of industrial molasses, United States, 19 μ_{2} -1956

		H	Imports and	Inshipments	its from -			00	Total
Year	Cuba 6/	Dominican: Republic: 6/	Mexico 6/	Hawaii 7/	Rico 8/6/	Other 8/	Total	Exports	market
	1,000 gallons	1,000 gallons	1,000 gallons	1,000 gallons	1,000 gallons	1,000 gallons	1,000 gallons	l,000 gallons	l,000 gallons
1942	194,031	8,173	8,477					435	
1943	249,584	l of	3,102 70	45,805 38,531	10,025	7,986	354,635	12.2	345,022 180,525
1945	113,614	17,	1				•	1,621	
1946	•	18	10,021				-	959	
1947	•	ц, К	21,160				-	9T9	
1940	161,872	17,743	23,595					7,836	
1,950	, n	16,	2,184					9,344	
1951	130,472	16,693	25,195				_	4,177	
1952		27,946	21,547				_	5,424	
1953	291,352	26,199	31,829				-	14,821	
1954	202,940	23,516	38,382				-	10,502	
1955	233,166	34,573	43,277				•	9,077	
1956 9/	235,000	30,000	35,000					13,000	
. 4									

7/ From data published by Department of Commerce for 1942-47. Data for 1948-55 furnished by 6/ Summarized from Bureau of Customs data and reports from Department of Commerce. Hawaiian Sugar Planters' Association.

8/ Includes shipments from British Guiana, British West Indies, Canada, Denmark, Ecuador, Egypt, France, French West Indies, Germany, Haiti, Indonesia, Italy, Mauritius, Netherlands, Nicaragua, Panama, Peru, Poland, Philippines, Spain, Taiwan (Formosa), Trinidad, and Turkey.

9/ All data for 1956 estimated.

Table 5. (Part 1) - Production, exports, and inshipments to the mainland, of industrial molasses, by principal areas supplying the United States, 1942-1956

- 1		ì					ŀ																	
		: Drodnotion	TO TO COT OF T	SUUTH	inshipments to	. United States	1,000 gallons		39,302	30,175	10,568	24,132	21,113	18,844	9,890	15,686	18,298	10,349	17,547	27,205	240,42	12,014	11,899	
	Puerto Rico	Thehimonte	COMPUNCTION	٠, د	. United States	الأر	1,000 gallons		12,098	10,025	17,632	16,268	17,287	31,956	44,810	43,589	31,224	1,9,951	52,253	32,651	37,558	44,232	45,000	
				Production	3/	1	1,000 gallons		51,400	10,200	28,200	001,01	38,400	50,800	54,800	59,275	49,522	60,300	99,800	59,856	61,600	56,246	56,899	
	••	น	••	••	44	98	ns	•••	**	**	••	••	46	**	**	4.0	**	**	44	4.	**	**		
		Production	mims	exports	t 0	: United States	1,000 gallons		129,290	- 5,716	204,331	81,127	175,682	194,013	192,742	129,727	75,581	158,153	211,224	-13,052		196,069	89,460	
	Cuba		Exports to	United States	_	T.	1,000 gallons		202,940	145,220	249,583	113,614	57,968	105,387	139,258	161,872	186,784	130,472	186,676	291,352	202,940	233,166	235,000	
		••	••	Production :	1/ :	ì	1,000 gallons		332,230	139,504	453,914	194,741	233,650	299,400	332,000	291,599	262,365	288,625	397,900	278,300	367,754	429,235	324,460	
	66 00	••	••	Year:	••	. 66		••	1942.	1943	1.944:	1945:	1946	1947	1948	1949	1950	1951	1952,	1953	1954:	1955	1956 7/.:	•• I

1/ Data from "World Sugar Situation" dated Sept. 1949, Bureau of Agricultural Economics, and from reports by the Cuban Sugar Stabilization Institute. Includes 131.7 million gallons of high-test molasses in 1954, 231.5 million in 1955, and 111.4 million in 1956.

Summarized from reports of the Department of Commerce.

Data from "Annual Report of the President", Association of Sugar Producers of Puerto Rico.

Table 5. (Part 2) - Production, exports, and inshipments to the mainland, of industrial molasses, by principal areas supplying the United States, 1942-1956

 Production 5/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	Hawaii Inshipments to to thited States 6/ 1,000 gallons 36,839 49,805 38,531 36,912	Production minus inshipments to United States 1,000 gallons 10,165 8,128	Production 1,000 gallons 1,30,634 230,094 528,773	Total : Imports and :inshipments to : United States : 1,000 gallons 251,877 205,050 305,746	min: min: and : Uni
25,68 123,72,44 14,72,72 14,62,72,9 14,62,72,9 14,63,72	32,226 37,461 41,483 42,523 41,076 47,942 47,942 50,630	13,897 1,907 1,007 1,007 1,009 1,000	308,171 398,968 430,315 393,880 393,648 511,741 589,475 434,203	200,024 174,804 228,551 247,984 221,995 276,871 371,561 327,811 330,000	200,650 220,164 201,764 11,5,896 171,653 17,614 194,085 104,203

5/ Data for 1942-48 supplied by the California and Hawaiian Sugar Corp., Ltd.; 1949-55 by the Hawaiian Sugar Planters Association.

6/ Data supplied by the Hawaiian Sugar Planters Association.

 $\frac{7}{}$ All data for 1956 estimated.

lackstrap: Price per gallon, f.o.b. tank-car, New Orleans, by months, January 1937-October 1956 $\frac{1}{1}$ Table 6. - Molasses, blackstrap:

90 (0)	(O)	0.0	0	m ~			0	0	0		2	·	<u> </u>	Ω.	2	~	2 ^	1 ~	2	-+	
Average	Cents	96.9	- N	6.23 9.27	18.00	18.00	18.00	18,00	18.00					25.41			10,70				
Dec.	Cents	6,12	4.75	6.32	18,00	18,00	18.00	18,00	18,00					7.50			700,7				
Nov.	Cents	6.12	4.75	6.32	18.00	18.00				0	17,00	17,00	°, 3,	29.85	29.50	, ,	21°7	0.00	767	YT.01	
Oct.	Cents	\$ 50 50 50 50 50 50 50 50 50 50 50 50 50 5	4.75	6.32 12.30	18.00	18,00								25.25			יאר ור אס רו				
Sept.	Cents	6.88	4.15	6.36 7.57		18,00								19,75			14.54 75.11				_
Aug.	Cents	2.00	3.25	% % %	18.00	18,00	18,00	18,00	18,00					16.55			24.75 25 FT				
July	Cents	7.00	3.25	8 8 8 8	18.00	18,00	18,00	18,00	18,00					13.00			1. 2. 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	_		_	
June	Cents	2.00	3.25	8 2 2 2 3		18,00				0	17,000	17°00	6.50	9.88	33.00		30.00		_		
May	Cents	7.00 %	. s. 3, s.	۰ 8 8 8 8	18.00	18,00	18,00	18,00	18.00	0	17,00	17°00	°.	7.44	33.60		10.45 10.75				
Apr.	Cents	% % %	3.45	7.38 38	œ	18.00	ထို	ထိ	ထို		17,000	,,	6.50	7.00	34.12	7	24.75	1000	10.75	20.01	7000
Mar.	Cents	2.00	3. K	4.33 6.81	18.00	18.00	18,00	18.00	18.00		17,00	19.00	19.00	0,7.9	34.88		20° CL				
Feb.	Cents	2.00	88	4.75 6.62	18.00	18,00	18,00	18,00	18,00	0	17,00	17.00	7.9.00	00°9	35.00	76 60	21・12 20 01	טיר טיר טיר	10.10	ST°OT	47.67
Jan.	Cents	7,00	9	4.9 28.38	18.00	18.00	18,00	18,00	18,00	0	10.00	19°00	19.00	00°9	8.7		00.62	09.01	10.07	10°00 11°00	OJ OTY
Year		1937=	1939:	1940	: 6/61	1943	1944:	1945:	1946	٠ داه د	174/000	1740	1,949	1950	1957		•	• •	0	1777	•

./ Prices were controlled from January 1942 to March 1947.

January 1937-December 1950 compiled by Bureau of Agrl. Economics from Oil, Paint & Drug Reporter; January 1951 to date from Molasses Market News - U.S. Dept. of Agriculture. Sources

Table 7. - Molasses, blackstrap: Price per gallon, f.o.b. tank-car, New York, by months, January 1937-October 1956 1/

Average	Cents	7.13	75.0	69.6		18.50			24.15	29.81	9.05	16,10	35.64		12,17				
Dec.	Cents	7.00	7.00	15.19		18,50			34.12	20,50				_	12.40	_	-		
Nov.	Cents	7.00	25.00	13.44	,	18.70	, ,			20.50			-		12,28				
Oct.	Cents	7.00	25.00 20.00	12.80		18°50		_	25.70	21.20			-				12,88		
Sept.	Cents	7.19	, y, c,	10.25		18.50 50.50			_	24.00	_	-					12,50		
Aug.	Cents		4. 2.00			18.50 18.50	. – .			25.50						_	12,50		
July	Cents		4°50			18. 18. 19. 19.		- '	21.75	_		_					12,50		
June	Cents		7.00		_	18.50 18.50	• -		22.38	34.44			_				12,50		
May	Cents		7.50			000 18 18 18 18 18 18 18 18 18 18 18 18 18			23.70	37.00	8°.	8,10	36.00			_	12,50		
Apr.	Cents		구. 장.			18 9 9 9	, ,	,	20.50	37.00	8.70	8	8.50	• .		_	12.50	т.	
Mar.	Cents	7.25	-1. 02.7.	7.25	18.50	18.50	18.50	18.50	18.50	37.00	0°6	ω 8	36.50	28,62	12,20	11.62	12.38	16.00	
Feb.	Cents	7.25	8.7.	7.00	18.50	18.50 18.50	18.50	18.50	18.50	37.00	9.75	8,00	36.50				11.60		
Jan.	Cents	7.25	6.75 7.75	2.00	20	18°50	ሌ	_C		8	22	8	යු	22	8	요.	11.60	8	
Year		1937	1939	1941	1942	1943	1945	1946	1947:	1948	1949	1,950	1951:	1952	1953	1954	1955	1956	••

1/ Prices were controlled from January 1942 to March 1947.

Source: January 1937-December 1950 compiled by Bureau of Agricultural Economics from Oil, Paint & Drug Reporter; January 1951 to date from Molasses Market News - U. S. Dept. of Agriculture

Table 8. - Price comparisons between molasses and No. 3 yellow corn at New York, Chicago and Kansas City 1/

1/ Six and one-half gallons of molasses is the carbohydrate equivalent of one bushel of corn. No. 3 yellow corn is used in these comparisons.

 $\frac{2}{3}$ Computed through Oct. 1956. Molasses prices advanced an average of $3\mu.5$ cents (per $6\frac{1}{2}$ -gal.) during October at the above three points.

Table 9. - Production of ethyl alcohol, in industrial alcohol plants from specified raw materials, 1942-56

centage: Grain 3 : materials 4 : so centage: Quantity : Percentage: Quantity : Of total : total : of total : o				P. Pot.	hyl	alcohol produced	ced from -	LIA	other	
Quantity :Percentage: Quantity : of total: 1,000 28,625 13.1 28,625 13.1 26,186 12.0 28,851 36.4 38,281 10,917 29.6 71,379 19.0 25,813 16.9 25,813 15.6 6,786 10,012 5,9 27,278 13.5 12,410 27,527 2	Molasses 1/ : retroiteum	d .	product	12 5	-	Grai	п 3/	mater	rials 4	All
## gallons 1,000 1	Quantity : Percentage: Quantity :P.	Quantity		Т .	:Percentage:	Quantity	*Percentage: of total :	Quantity	: Percentage	
## gallons Percent : gallons Percent : gallons Percent : gallons			1,000		0.0	1,000	••	1,000		1,000
28,625 13.1 26,186 12.0 98,851 36.4 38,281 14.2 110,917 29.6 71,379 19.0 129,913 14.2 11,262 8.8 8.8 18,449 14.2 11,262 8.8 8.8 10,012 5.96 23,113 13.5 5.256 33.1 12,410 7.4 27,278 13.5 12,819 6.3 57,165 22.6 5,298 2.1 27,527 12.0 5,410 2.3 3,345 1.4 10,057 4.2 5,821 2.8 13,167 5.6 5,56 4,000 1.5 12,000 4.6	gallons Percent : gallons	00	gallons		Percent :	gallons	Percent:	gallons	Percent	gallons
98,851 36.4 38,281 14.2 110,917 29.6 71,379 19.0 129,913 146.9 23,092 8.4 18,149 14.2 11,262 8.8 25,256 3.1 12,410 7.4 27,527 12.0 5,410 5.23 3,345 1.4 10,057 4.2 5,821 2.8 13,197 6.5 5,640 1.5 12,000 4.6	52.2		49,395		22.7	28,625	13.1	26,186	12.0	217,887
110, 917 29.6 71, 379 19.0 129, 913 16.9 23,092 8.4 18,1449 14,.2 11,262 8.8 25,813 15.6 6,786 4.0 27,278 13.5 12,410 7.4 27,278 13.5 12,410 6.3 57,165 22.6 5,410 2.3 3,345 1.4 10,057 4.2 5,821 2.8 13,197 6.5 3,416 1.4 13,467 5.6			55,646		20.5	98,851	36.4 36.4	38,281	14.2	271,222
129,913 46.9 23,092 8.4 18,449 14.2 11,262 8.8 25,813 15.6 6,786 4.0 10,012 5.9 23,113 13.5 5,256 3.1 12,410 7.4 27,278 13.5 12,819 6.3 57,165 22.6 5,410 2.3 3,345 1.4 10,057 4.2 5,821 2.8 13,197 6.5 3,416 1.4 13,467 5.6 4,000 1.5 12,000 4.6	133,539 35.6 59,054		59,054		15.8	110,917	56.6	71,379	19.0	374,889
18,449 14.2 11,262 8.8 25,813 15.6 6,786 4.0 10,012 5.9 23,113 13.5 5,256 3.1 12,410 7.4 27,278 13.5 12,819 6.3 57,165 22.6 5,298 2.1 27,527 12.0 5,410 2.3 3,345 1.4 10,057 4.2 5,821 2.8 13,167 6.5 3,416 1.4 13,467 5.6	22,3		61,986		22.4	129,913	7,000	23,092	7°8	276,830
25,813 15.6 6,786 4.0 10,012 5.9 23,113 13.5 5,256 3.1 12,410 7.4 27,278 13.5 12,819 6.3 57,165 22.6 5,298 2.1 27,527 12.0 5,410 2.3 3,345 1.4 10,057 4.2 5,821 2.8 13,497 6.5 3,416 1.4 13,467 5.6	23,1		69,895		53.9	18,149	14.2	11,262	ಹ	129,573
10,012 5.9 23,113 13.5 5.256 3.1 12,410 7.4 7.4 5.256 3.1 12,819 6.3 7.4 57,165 22.6 5,298 2.1 27,527 12.0 5,410 2.3 3,445 1.4 10,057 4.2 5,821 2.8 13,197 6.5 5,816 1.6 1.5 12,000 4.6	35.7		74,133		141.7	25,813	15.6	6,786	0.4	165,981
5,256 3.1 12,410 7.4 27,278 13.5 12,819 6.3 57,165 22.6 5,298 2.1 27,527 12.0 5,410 2.3 3,345 1.4 10,057 4.2 5,821 2.8 13,197 6.5 3,416 1.4 13,467 5.6 4,000 1.5 12,000 4.6	56,985 33.4 80,565		80,565		47.2	10,012	ν. ο.	23,113	13.5	170,675
27,278 13.5 12,819 6.3 57,165 22.6 5,298 2.1 27,527 12.0 5,410 2.3 3,345 1.4 10,057 4.2 5,821 2.8 13,197 6.5 3,416 1.4 13,467 5.6 4,000 1.5 12,000 4.6	7.0		75,989		45.0	5,256	, w	12,410	7.4	168,852
27,165 22.6 5,298 2.1 27,527 12.0 5,410 2.3 3,345 1.4 10,057 4,2 5,821 2.8 13,197 6.5 3,416 1.4 13,467 5.6 4,000 1.5 12,000 4.6	26.4		109,074		23°8	27,278	13.5	12,819	ر پ	202,797
27,527 12.0 5,410 2.3 3,345 1.4 10,057 4.2 5,821 2.8 13,197 6.5 3,416 1.4 13,467 5.6 4,000 1.5 12,000 4.6		125,			9.64	57,165	22.6	5,296	T*2	252, (58
3,345 1.4 10,057 4.2 5,821 2.8 13,197 6.5 3,416 1.4 13,467 5.6 4,000 1.5 12,000 4.6	30.1		117,746		55.6	27,527	12.0	5,410	2.3	219,935
5,821 2,8 13,197 6,5 3,416 1,4 13,467 5,6 4,000 1,5 12,000 4,6	77,020 32.4 147,621		147,621		62.0	3,345	7.4	10,057	4.2	238,043
3,416 1.4 13,467 5.6 4,000 1.5 12,000 4.6	12,2		159,848		78.5	5,82	2.8	13,197	6.57	203,670
4,000 1.5 12,000 4.6	18.0		179,662		75.0	3,416	1°T	13,467	2.6	239,489
	21.9		187,000		72.0	7,000	L V	12,000	9*17	260,000

1/ Additional amounts of alcohol were made from "molasses mixtures"; such alcohol is included in the 'All other materials" column.

Additional amounts of alcohol were made from "grain mixtures"; such alcohol is included in the 2/ Ethyl sulphate prior to 1950, with the addition of ethylene gas after that year. 3/ Additional amounts of alcohol were made from "grain mixtures"; such alcohol is in "All other materials" column.

½/ Chiefly sulphite liquors, cellulose pulp, chemical and crude alcohol mixtures, whey, pineapple juice, grain and molasses mixtures, and potatoes and potato products.
५/ Gross production of ethyl alcohol minus the quantity of unfinished products used in redistillation.
६/ Estimated.

Source: "Comparative Statistics on Ethyl Alcohol," Alcohol Tax Unit, Internal Revenue Service, converted from proof gallons of 100 proof to wine gallons of 190 proof.

Table 10. - Industrial molasses used in the production of alcohol and distilled spirits, 1941-56 1/

Year	Ethyl alcohol 2/	: Acetone : : butyl alcohol : and some : : ethyl alcohol :	Distilled spirits 3/	: All : products :
•	1,000	1,000	l,000	1,000
	gallons	gallons	gallons	gallons
1941 1942 1943 1944 1945 1947 1948 1949 1950	271,043 222,741 168,800 313,665 146,914 73,170 139,248 135,563 151,061 142,859 151,653	69,175 27,699 40,211 43,680 32,784 40,413 19,183 11,132 19,977 17,685 6,570 8,013	4,192 6,749 9,860 10,577 12,436 3,497 2,803 3,082 4,276 2,435 2,595 2,428	344,410 357,189 218,871 367,922 192,134 117,080 161,234 149,777 175,314 162,979 160,818 169,218
1953:	180,226	25,613	2,557	208,396
1954:	56,554	28,910	2,319	87,783
1955:	82,453	36,146	2,709	121,308
1956 <u>L</u> /:	90,000	32,000	3,000	125,000

^{1/} Includes high-test molasses from 1941-44 and 1954-56.

Source: Annual Report of the Commissioner of Internal Revenue, U.S. Treasury Department, and Monthly Reports of the Alcohol Tax Unit, Internal Revenue Service.

^{2/} Includes "molasses mixtures" used in making ethyl alcohol.

^{3/} Chiefly rum and gin.

^{4/} Estimated.

Table 11. - Ethyl alcohol, 190 proof; Average wholesale price per gallon, tax free, tank-car lots, New York, January 1942-October 1956

-	Dec.	Cents	52,0	20.0	7. 7.	84.0	2/94.9	146.2	29.0	90.0	0.06		0.04	43.0	0.01	0.01		
	Nov.	Cents	52.0	5 0 0	52.7	1.76.9	96.0	62.5	29.0	0.06	0.06		141.1	0.94	0.04	0.01		
	Oct.	Cents	52.0	50.05	50.	55.5	9.06	75.0	29.0	85.0	0.00	;	55.2	48.0	0.01	0.01	47.0	
	Sept.	Cents	52.0	0°0°	50.0	55.5	87.0	75.0	29.0	75.0	0.0%	1	55.0	78.0	0.04	0.01	74.0	
	Aug.	Cents	52.0	50°	50 0	55.5	87.0	77.5	29.0	39.0	0.08	:	55.0	0.84	0.04	0.04	47.0	
	July	Cents	52,0	20.00	50.0	55.5	98.0	85.0	29.0	39.0	0.06	1	55.0	78°0	0.01	0.01	0.74	
	June	Cents	52.0	20.05	50.0	55.5	98.0	86.5	21.0	37.0	0°08	;	55.0	78.0	0.01	0.04	0*9†7	
	May	Cents	52.0	안	0 0 1	55.5	98.0	88	21.0	35.0	0.06	1	55.0	78.0	0.01	0.01	42.0	
	Apr.	Cents	52.0	50.00	0 0 1 0	55.5	98.0	91.0	21.0	35.0	0.08]	75.0	0.84	70.0	70.0	42.0	
	Mar.	Cents	52.0	2 2 0	50.0	55.5	84.0	93.0	o•ਹ	32.0	0.06	1	75.0	70.0	42.2	0.01	42.0	1
	Feb.	Cents	52.0	50.0	요. 0	55.5	84.0	94.5	24.5	29.0	0.06		75.0	70.0	43.0	0.01	42.0	
200	Jan.	Cents	1/52.0	0°0°	0 0	55.5	84.0	94.5	٣ ٣	29.0	0.08	·	75.0	70.0	43.0	0°07	47.5	
	Year		1942	1944	1945	1946	1947	1948	1949	1950	1951	4.	1952	1953:	1954	1955	1946	•

1/ Beginning and ending of price controls.

2/ In the second week of December the price quotation changed from a price "at works" to a price "Delivered east of the Mississippi River."

Source: Oil, Paint, and Drug Reporter.

Table 12. - Molasses used in the production of ethyl alcohol, by months, January 1953-September 1956

Month	1953	1954	1955	1956
	Million gallons	Million gallons	Million gallons	Million gallons
January:	27.4	1.5	3.7	7.8
February:	23.9	1.4	3.5	9.4
March	20.1	4.9	3.8	9.9
April	21.5	6.4	6.5	9.1
May	19.5	7.6	7.6	9.3
June	17.7	8.2	6.8	9.0
July	16.7	5.6	6.4	5.8
August:	11.1	5.4	6.8	4.9
September:	6.9	4.1	8.9	3.8
October:	6.0	4.0	10.5	
November:	5.7	3.5	9.8	
December:	3.7	3.8	8.0	

Source: Alcohol Tax Unit, Internal Revenue Service.

OFFICIAL BUSINESS

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Agricultural Marketing Service
Grain Division, Market News Branch
Washington 25, D. C.



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